

**Thursday, May 20, 2021** 

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NPDES MAY 2021

SDG ID: GCI23975 Sample ID#s: CI23975

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618 MA Lab Registration #M-CT007

**ME Lab Registration #CT-007** 

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

**UT Lab Registration #CT00007** 

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Sample Id Cross Reference

May 20, 2021

SDG I.D.: GCI23975

Project ID: NPDES MAY 2021

Client Id	Lab Id	Matrix
EFFLUENT	CI23975	WASTE WATER



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**Analysis Report** 

May 20, 2021

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample Information

WASTE WATER

WATER Collected by: ARD Received by: <u>Date</u> 05/05/21 <u>Time</u>

Location Code:

Matrix:

P.O.#:

BARNHARD

CP

05/05/21

7:00 16:40

Rush Request:

Standard G12043 Analyzed by:

\_aboratory Data

**Custody Information** 

see "By" below

SDG ID: GCI23975

Phoenix ID: Cl23975

Project ID:

Client ID:

NPDES MAY 2021 EFFLUENT

RI/

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Chromium	0.003	0.001	mg/L	1	05/07/21	CPP	E200.7
Copper	0.028	0.003	mg/L	1	05/07/21	CPP	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	05/06/21 15:53	:VM/C/KE	BISM 5210B-11
B.O.D./5 day End Incubation					05/11/21 17:20	:VM/C/KE	BISM 5210B-11
C.O.D.	198	10	mg/L	1	05/07/21	QH	SM 5220D-11
Ammonia as Nitrogen	0.35	0.10	mg/L	2	05/19/21	KDB	E350.1
Nitrite-N	0.063	0.010	mg/L	1	05/05/21 22:01	TB	E353.2
Nitrate-N	6.96	0.20	mg/L	10	05/05/21 22:04	ТВ	E353.2
Nitrogen Tot Kjeldahl	6.95	0.20	mg/L	2	05/19/21	KDB	E351.1
Total Nitrogen	14.0	0.10	mg/L	1	05/19/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	3.41	0.050	mg/L	5	05/07/21	MI	SM4500PE-11
Total Suspended Solids	4.0	3.3	mg/L	0.7	05/07/21	QH/ARG	SM 2540D-11
Total Metals Digestion	Completed				05/06/21	AG/BF/B	F

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 20, 2021

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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# QA/QC Report

May 20, 2021

## QA/QC Data

SDG I.D.: GCI23975

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 574309 (mg/L), (	2C Sam	ple No: (	CI25079	(CI23975	5)								
ICP Metals - Aqueous													
Chromium	BRL	0.0005	< 0.001	<0.0005	NC	105	98.6	6.3	92.6	96.7	4.3	80 - 120	20
Copper	BRL	0.0025	0.0047	0.0332	NC	97.1	96.7	0.4	94.4	99.3	5.1	80 - 120	20
Comment:													
Additional: LCS acceptance range	e is 80-12	20% MS a	cceptance	e range 7	5-125%								



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## QA/QC Report

May 20, 2021

### QA/QC Data

SDG I.D.: GCI23975

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 574429 (mg/L), (	2C Samp	ole No:	CI23133	(CI2397	5)								
C.O.D.	BRL	10	<10	12	NC	98.1			104			85 - 115	20
Comment:													
Additional: LCS acceptance range	e is 85-11	5% MS	acceptance	e range 7	75-125%								
QA/QC Batch 574447 (mg/L), 0	2C Samp	ole No:	CI23352	(CI2397	5)								
Phosphorus, as P Comment:	BRL	0.01	0.823	0.816	0.90	102			NC			85 - 115	20
Additional: LCS acceptance range	e is 85-11	5% MS	acceptanc	e range 7	75-125%								
QA/QC Batch 574262 (mg/L), (	2C Samp	ole No:	CI23757	(CI2397!	5)								
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	111			123			70 - 130	20
B.O.D./5 day GGA BOD						87.4						84 - 115	20
QA/QC Batch 574370 (mg/L), 0	2C Samp	ole No:	CI24581	(CI2397!	5)								
Total Suspended Solids	BRL	2.5	< 5.0	< 5.0	NC	94.0						85 - 115	
QA/QC Batch 574137 (mg/L), 0	2C Samp	ole No:	CI23954	(CI2397	5)								
Nitrate-N	BRL	0.02	< 0.02	< 0.02	NC	101			101			90 - 110	20
Nitrite-N	BRL	0.01	0.135	0.14	3.60	101			102			90 - 110	20
QA/QC Batch 575843 (mg/L), 0	2C Samp	ole No:	CI33270	(CI2397!	5)								
Ammonia as Nitrogen	BRL	0.05	< 0.05	0.06	NC	99.3			100			90 - 110	20
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	0.21	0.27	NC	103			101			85 - 115	20
TKN is reported as Organic Nitrog	gen in the	Blank, I	_CS, DUP	and MS.									

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

May 26, 2021

Thursday, May 20, 2021

# Sample Criteria Exceedances Report GC123975 - BARNHARD

Criteria: None State: MA

State: MA

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

<sup>\*\*\*</sup> No Data to Display \*\*\*



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# **Analysis Comments**

May 20, 2021 SDG I.D.: GCl23975

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

		S I	CHAIN OF CHETORY BECOBE	VBECOBD	Cooler: Coolant: IPK	No ICE No Of
PHOENIX F	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	587 East Middle Email: info	East Middle Tumpike, P.O. Box 370 Email: info@phoenixlabs.com	East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823	Data Delivery/Contact Options:    About H13 - 624 - 3471 x	
		5	es (oor	043-0720	Email	TO IN THE OF
Am hand 1-	70		Project: N.S.	C JAM ST	Project P.O. Cr. 12 cv.3  Twise section MI	This section MIST he
MANN MASS		27		47744		completed with
			QUOTE#		<b>P</b>	Bottle Quantities.
Client Sample - Information - Identification		10-2-		202		1400,405
Signature Matrix Code:  DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Rw=Raw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil	Date: Date: Se Water WW=Waste	Water OIL=Oil	1200	Service of the servic	Ti Joue J	THOOS INDOS
(Other)				Jan Cook	ALIENIO PLIO	
Customer Sample Identification	Sample Date Matrix Sampled	Time	K/2 40%	Sweet States	71404	81.87.88 18 18 NAY 18
	W-5-5 m	John 1				
Afrant u	12-5-5 WW	7mm			+	
Efflux 1	2-5-2 WW	74			7	
FAF Want	15-2-5 mm	74-			*	
EFFLUMY	15-7-2 WW	782	_		*	
Efflunt 6	12-5-5 (MM	1			*	
	15-2-5 MM	713m				
	-					
Accepted by:		Date: Tin	Time: RI	CT		Data Format
5,2	{	1645	123 1   Residential)	☐ RCP Cert	MCP Certification	
\ \ \ \	Likely	1207		Ow Protection	GW-1 MWRA eSMART	<b>7</b>
		5.22	U · V U (Comm/Industrial) Direct Exposure	SW Protection	GW-2 S-110% CALC	Gis/key
Comments, Special Requirements or Regulations:			GA Leachability	GA Mobility	GW-3 S-1 GW-1 S-1 GW-2 S-1 GW-3	Other Dackage
		I urnaround i me:	me:  GB Leachability	GB Mobility	S-2 GW-1 S-2 GW-2 S-2 GW-3	
			GA-GW	I/C DEC	S-3 GW-1 S-3 GW-2 S-3 GW-3 SW Protection	
		Standard	WB-8B	<u>                                     </u>	MA More collected.	
*MS/MSD are considered site samples and will be billed as such in accordance with the prices morted	such in accordance	- ⊼		es State where samples were collected:		* SURCHARGE APPLIES
						PEL-126 REV. 06/20